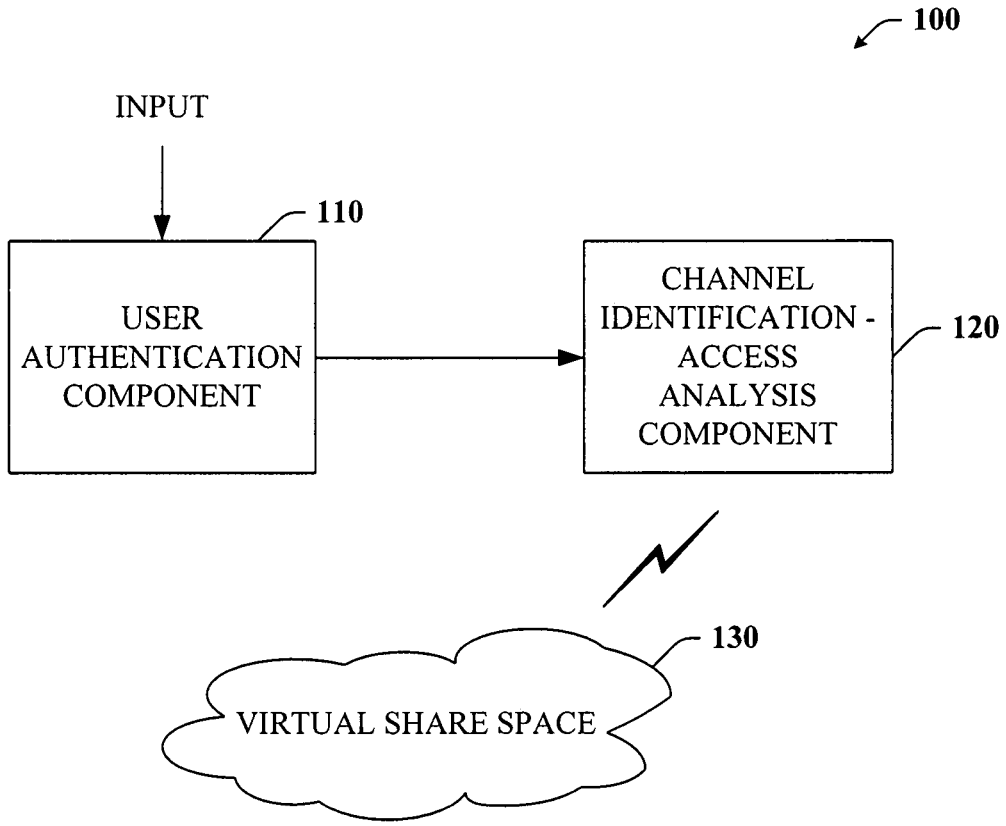
100
INPUT
110
USER AUTHENTICATION COMPONENT
CHANNEL IDENTIFICATION - ACCESS ANALYSIS COMPONENT
120
130
VIRTUAL SHARE SPACE

FIG. 1

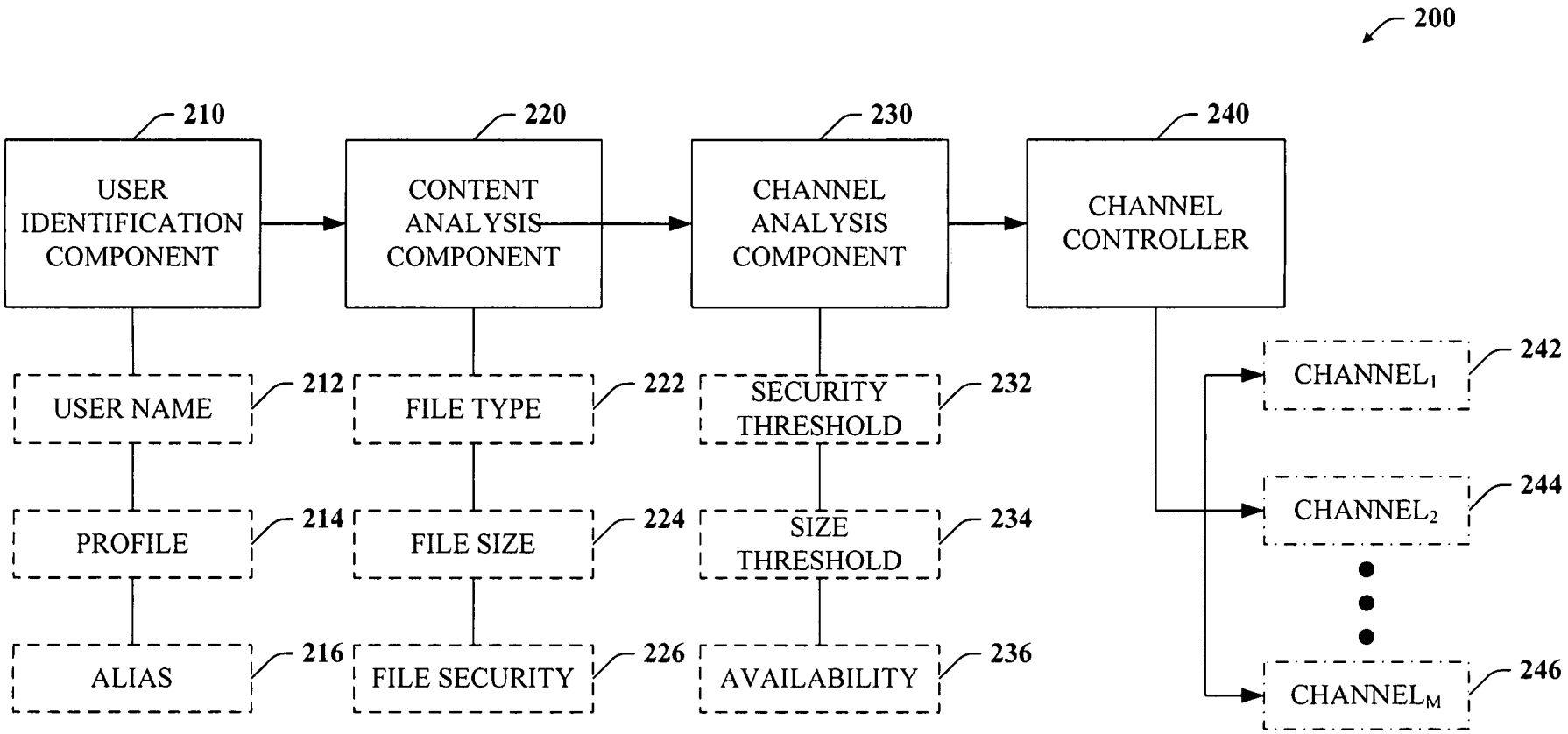
200
210
USER IDENTIFICATION COMPONENT
220
CONTENT ANALYSIS COMPONENT
230
CHANNEL ANALYSIS COMPONENT
240
CHANNEL CONTROLLER
USER NAME
212
PROFILE
214
ALIAS
216
FILE TYPE
222
FILE SIZE
224
FILE SECURITY
226
SECURITY THRESHOLD
232
SIZE THRESHOLD
234
AVAILABILITY
236
CHANNEL1
242
CHANNEL2
244
CHANNELM
246

FIG. 2

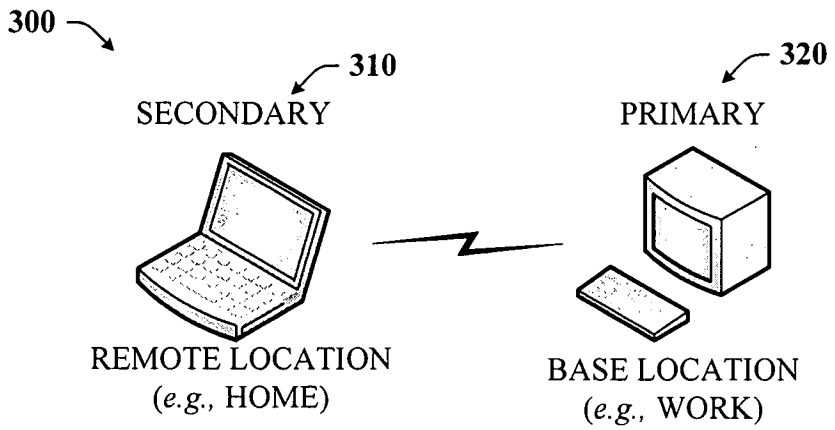
300
310
320
SECONDARY
PRIMARY
REMOTE LOCATION
(e.g., HOME)
BASE LOCATION
(e.g., WORK)

FIG. 3

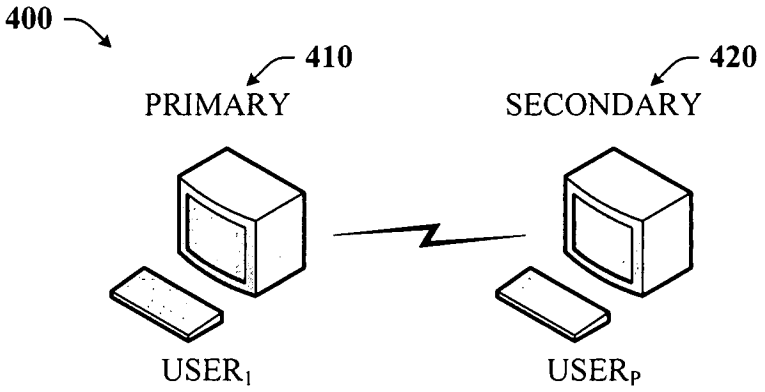
400
410
420
PRIMARY
SECONDARY
USER1
USERP

FIG. 4

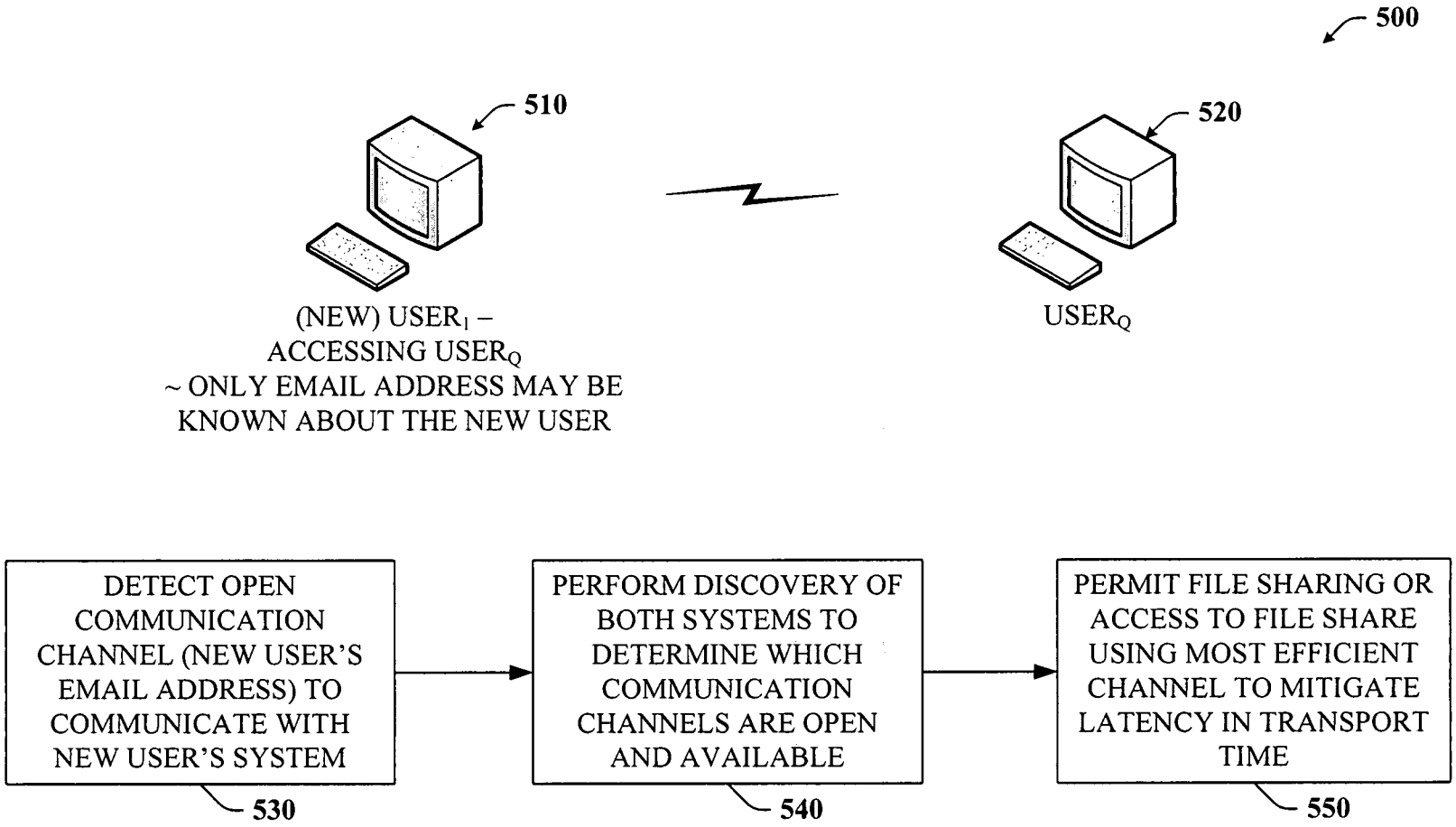
500
510
520
(NEW) USER$_I$ –
ACCESSING USER$_Q$
~ ONLY EMAIL ADDRESS MAY BE
KNOWN ABOUT THE NEW USER
USER$_Q$
DETECT OPEN COMMUNICATION CHANNEL (NEW USER'S EMAIL ADDRESS) TO COMMUNICATE WITH NEW USER'S SYSTEM
530
PERFORM DISCOVERY OF BOTH SYSTEMS TO DETERMINE WHICH COMMUNICATION CHANNELS ARE OPEN AND AVAILABLE
540
PERMIT FILE SHARING OR ACCESS TO FILE SHARE USING MOST EFFICIENT CHANNEL TO MITIGATE LATENCY IN TRANSPORT TIME
550

FIG. 5

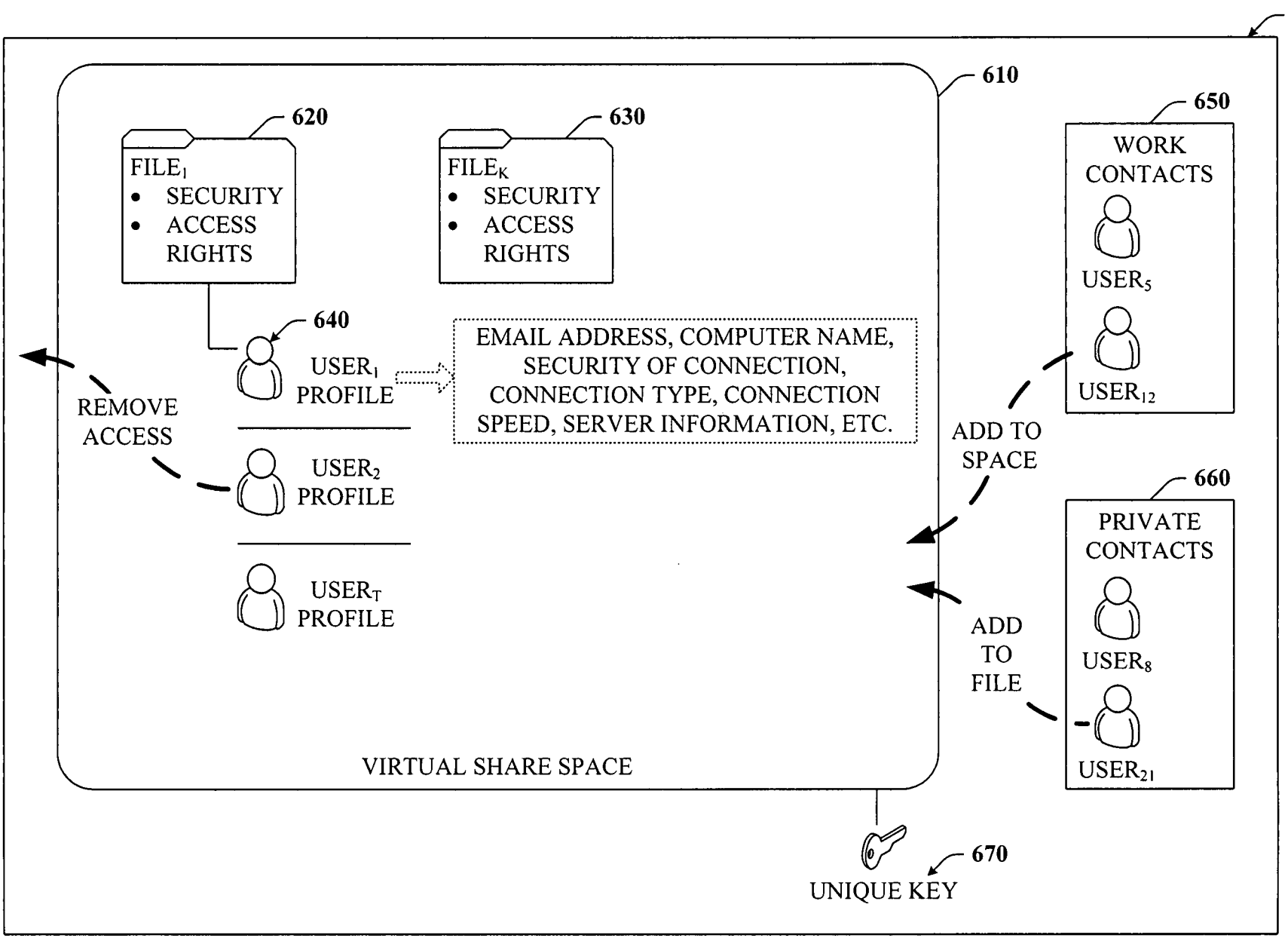
600
610
620
630
650
660
640
670
FILE1
• SECURITY
• ACCESS RIGHTS
FILEK
• SECURITY
• ACCESS RIGHTS
WORK CONTACTS
USER5
USER12
USER1 PROFILE
EMAIL ADDRESS, COMPUTER NAME, SECURITY OF CONNECTION, CONNECTION TYPE, CONNECTION SPEED, SERVER INFORMATION, ETC.
REMOVE ACCESS
USER2 PROFILE
USERT PROFILE
ADD TO SPACE
PRIVATE CONTACTS
USER8
USER21
ADD TO FILE
VIRTUAL SHARE SPACE
UNIQUE KEY

FIG. 6

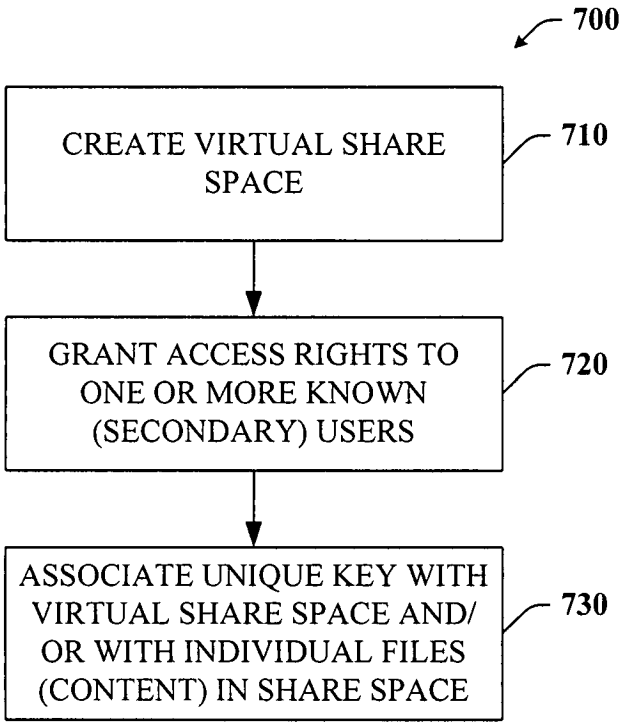
700
CREATE VIRTUAL SHARE SPACE
710
GRANT ACCESS RIGHTS TO ONE OR MORE KNOWN (SECONDARY) USERS
720
ASSOCIATE UNIQUE KEY WITH VIRTUAL SHARE SPACE AND/ OR WITH INDIVIDUAL FILES (CONTENT) IN SHARE SPACE
730

FIG. 7

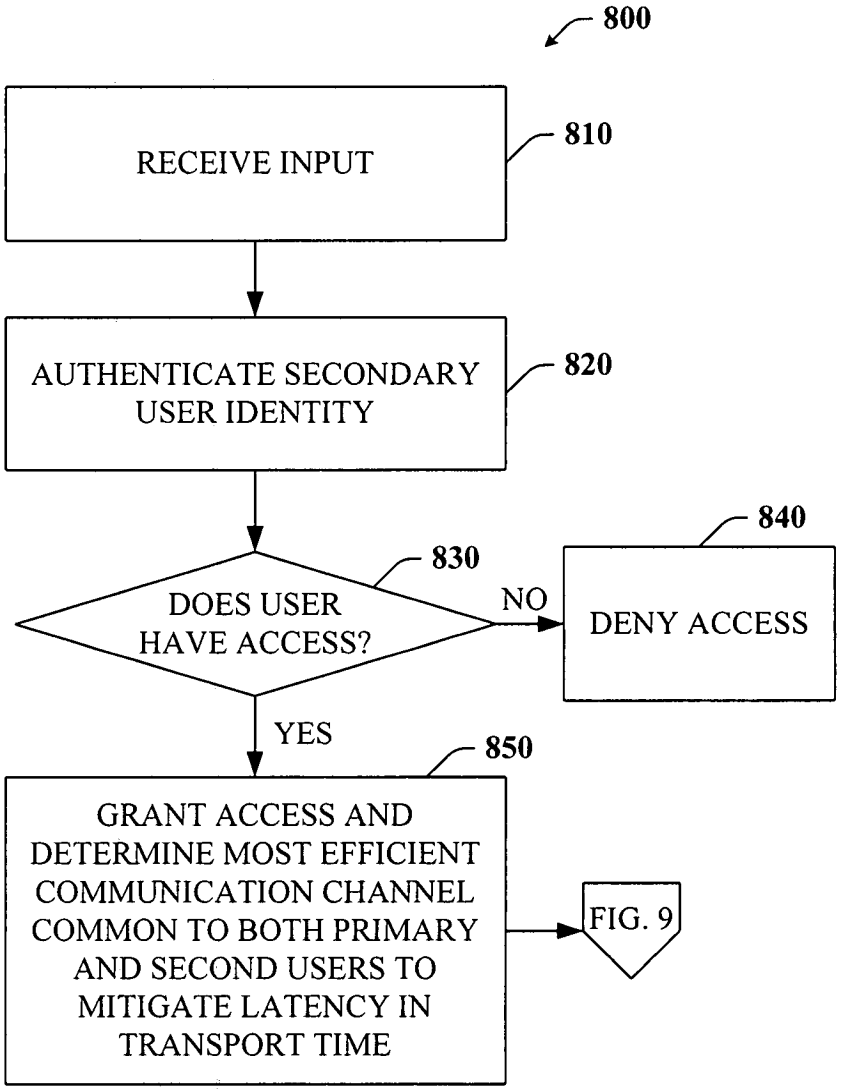
800
RECEIVE INPUT
810
AUTHENTICATE SECONDARY USER IDENTITY
820
DOES USER HAVE ACCESS?
830
NO
DENY ACCESS
840
YES
GRANT ACCESS AND DETERMINE MOST EFFICIENT COMMUNICATION CHANNEL COMMON TO BOTH PRIMARY AND SECOND USERS TO MITIGATE LATENCY IN TRANSPORT TIME
850
FIG. 9

FIG. 8

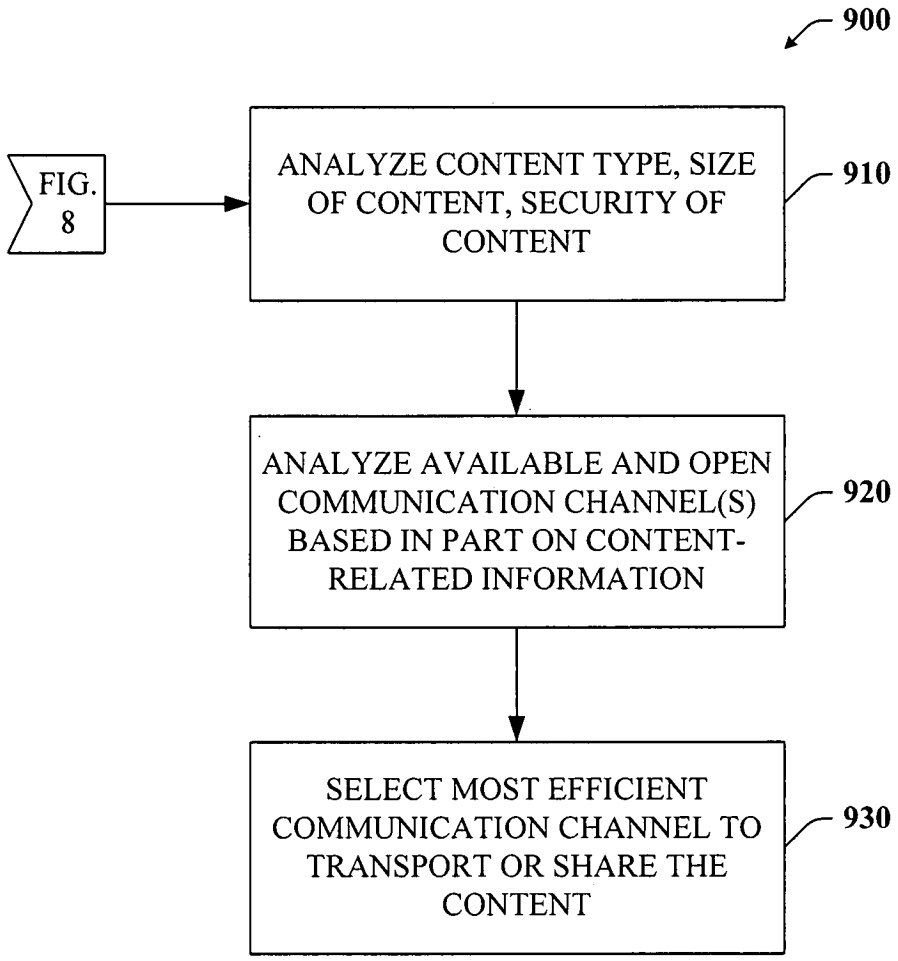
900
FIG. 8
ANALYZE CONTENT TYPE, SIZE OF CONTENT, SECURITY OF CONTENT
910
ANALYZE AVAILABLE AND OPEN COMMUNICATION CHANNEL(S) BASED IN PART ON CONTENT-RELATED INFORMATION
920
SELECT MOST EFFICIENT COMMUNICATION CHANNEL TO TRANSPORT OR SHARE THE CONTENT
930

FIG. 9

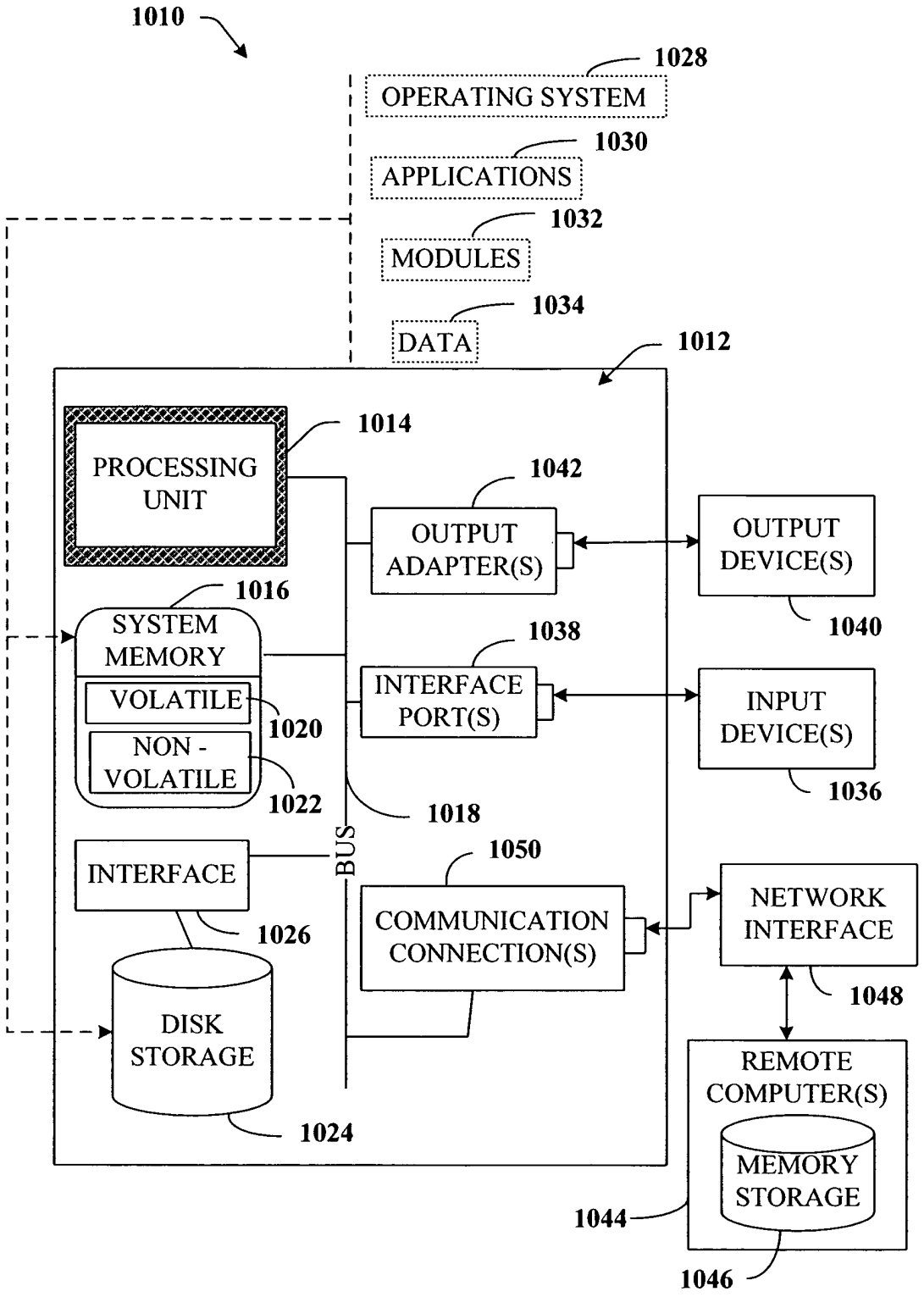
1010
1028
OPERATING SYSTEM
1030
APPLICATIONS
1032
MODULES
1034
DATA
1012
1014
PROCESSING UNIT
1042
OUTPUT ADAPTER(S)
OUTPUT DEVICE(S)
1040
1016
SYSTEM MEMORY
VOLATILE
1020
NON - VOLATILE
1022
1038
INTERFACE PORT(S)
INPUT DEVICE(S)
1036
1018
BUS
INTERFACE
1026
1050
COMMUNICATION CONNECTION(S)
NETWORK INTERFACE
1048
DISK STORAGE
1024
REMOTE COMPUTER(S)
MEMORY STORAGE
1044
1046

FIG. 10